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### 1 [Developing and integrating enterprise components and services: Overcoming independent extensibility challenges](#)

Erik Meijer, Clemens Szyperski

 October 2002 **Communications of the ACM**, Volume 45 Issue 10

 Full text available: ☒ pdf(108.72 KB) ☒ html (36.43 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Independent extensibility requires a strong handle on versioning through precise names.

### 2 [Software evolution through iterative prototyping](#)

Neil Goldman, K. Narayanaswamy

 June 1992 **Proceedings of the 14th international conference on Software engineering**

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### 3 [The architecture of Montana: an open and extensible programming environment with an incremental C++ compiler](#)

Michael Karasick

 November 1998 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 6th ACM SIGSOFT international symposium on Foundations of software engineering**, Volume 23 Issue 6

 Full text available: ☒ pdf(1.16 MB)

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Montana is an open, extensible integrated programming environment for C++ that supports incremental compilation and linking, a persistent code cache called a CodeStore, and a set of programming interfaces to the CodeStore for tool writers. CodeStore serves as a central source of information for compiling, browsing, and debugging. CodeStore contains information about both the static and dynamic structure of the compiled program. This information spans files, macros, declarations, function bodies, ...

**Keywords:** C++, compilation, extensible systems, frameworks, incremental compilation, incremental development environments, programming environments

4 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  [pdf\(4.21 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

5 Lineage retrieval for scientific data processing: a survey

Rajendra Bose, James Frew

March 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 1

Full text available:  [pdf\(728.75 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Scientific research relies as much on the dissemination and exchange of data sets as on the publication of conclusions. Accurately tracking the lineage (origin and subsequent processing history) of scientific data sets is thus imperative for the complete documentation of scientific work. Researchers are effectively prevented from determining, preserving, or providing the lineage of the computational data products they use and create, however, because of the lack of a definitive model for lineage ...

**Keywords:** Data lineage, audit, data provenance, scientific data, scientific workflow

6 Gravity: supporting dynamically available services in client-side applications

Richard S. Hall, Humberto Cervantes

September 2003 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 9th European software engineering conference held jointly with 11th ACM SIGSOFT international symposium on Foundations of software engineering**, Volume 28 Issue 5

Full text available:  [pdf\(1.53 MB\)](#)

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This paper describes a project, called Gravity, that is providing support for building client-side applications out of dynamically available building blocks. The purpose behind this work is not only to deal with real-world issues already facing developers and end-users, but to also work toward a grander vision. In this vision, applications are built using context-aware architectures, meaning that context (e.g., location, environment, user task) is used as a filter to determine which building blo ...

**Keywords:** OSGi, component-oriented programming, dynamic availability, service-oriented programming

7 Version models for software configuration management

Reidar Conradi, Bernhard Westfechtel

June 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 2


Full text available:  pdf(483.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

After more than 20 years of research and practice in software configuration management (SCM), constructing consistent configurations of versioned software products still remains a challenge. This article focuses on the version models underlying both commercial systems and research prototypes. It provides an overview and classification of different versioning paradigms and defines and relates fundamental concepts such as revisions, variants, configurations, and changes. In particular, we foc ...

**Keywords:** changes, configuration rules, configurations, revisions, variants, versions

8 Workshop on compositional software architectures: workshop report


May 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 3

Full text available:  pdf(2.91 MB) Additional Information: [full citation](#), [index terms](#)

9 Imposing a Memory Management Discipline on Software Deployment

Eelco Dolstra, Eelco Visser, Merijn de Jonge



May 2004 **Proceedings of the 26th International Conference on Software Engineering**

Full text available:  pdf(365.54 KB) Additional Information: [full citation](#), [abstract](#)

The deployment of software components frequently fails because dependencies on other components are not declared explicitly or are declared imprecisely. This results in an incomplete reproduction of the environment necessary for proper operation, or in interference between incompatible variants. In this paper we show that these deployment hazards are similar to pointer hazards in memory models of programming languages and can be countered by imposing a memory management discipline on software deployment ...

10 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**


Full text available:  pdf(613.63 KB)  html (2.78 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 WREN---an environment for component-based development

Chris Lürer, David S. Rosenblum

September 2001 **ACM SIGSOFT Software Engineering Notes**, **Proceedings of the 8th European**

**software engineering conference held jointly with 9th ACM SIGSOFT  
international symposium on Foundations of software engineering, Volume 26  
Issue 5**

Full text available:  [pdf\(590.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Prior research in software environments focused on three important problems---tool integration, artifact management, and process guidance. The context for that research, and hence the orientation of the resulting environments, was a traditional model of development in which an application is developed completely from scratch by a single organization. A notable characteristic of component-based development is its emphasis on integrating independently developed components produced by multiple orga ...

**Keywords:** Java, Java Beans, component-based software engineering, software components, software environments

**12 Course and exercise sequencing using metadata in adaptive hypermedia learning systems**

Stephan Fischer

March 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available:  [pdf\(115.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)



In the last few years the (semi-) automatic sequencing of course material has become an important research issue, particularly the standardization of metadata for educational resources. Sequencing can help to generate hypermedia documents which, at their best match the learner's needs. To perform (semi-) automatic course sequencing, a knowledge library as well as modular resources can be used. Both must be described by metadata. ...

**Keywords:** adaptive hypermedia systems, hypermedia learning, knowledge engineering, sequencing of course material

**13 Invited papers on the frontiers of software practice: Component technology: what, where, and how?**

Clemens Szyperski

May 2003 **Proceedings of the 25th International Conference on Software Engineering**


Full text available:  [pdf\(874.15 KB\)](#)  [Publisher Site](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Software components, if used properly, offer many software engineering benefits. Yet, they also pose many original challenges starting from quality assurance and ranging to architectural embedding and composability. In addition, the recent movement towards services, as well as the established world of objects, causes many to wonder what purpose components might have. This extended abstract summarizes the main points of my Frontiers of Software Practice (FOSP) talk at ICSE 2003. The topics covered ...

**14 Prefetch injection based on hardware monitoring and object metadata**

Ali-Reza Adl-Tabatabai, Richard L. Hudson, Mauricio J. Serrano, Sreenivas Subramoney

June 2004 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2004 conference on Programming language design and implementation, Volume 39 Issue 6**

Full text available:  pdf(288.00 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Cache miss stalls hurt performance because of the large gap between memory and processor speeds - for example, the popular server benchmark SPEC JBB2000 spends 45% of its cycles stalled waiting for memory requests on the Itanium® 2 processor. Traversing linked data structures causes a large portion of these stalls. Prefetching for linked data structures remains a major challenge because serial data dependencies between elements in a linked data structure preclude the timely materialization ...

**Keywords:** cache misses, compiler optimization, garbage collection, prefetching, profile-guided optimization, virtual machines

#### 15 Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid

June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Full text available:  pdf(233.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

**Keywords:** application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile computing, mobile data, mobility awareness, survey, system application

#### 16 Student tracking and personalization: Personalization in distributed e-learning environments

Peter Dolog, Nicola Henze, Wolfgang Nejdl, Michael Sintek

May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters**

Full text available:  pdf(328.49 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Personalized support for learners becomes even more important, when e-Learning takes place in open and dynamic learning and information networks. This paper shows how to realize personalized learning support in distributed learning environments based on Semantic Web technologies. Our approach fills the existing gap between current adaptive educational systems with well-established personalization functionality, and open, dynamic learning repository networks. We propose a service-based architecture ...


**Keywords:** P2P, adaptation, learning repositories, ontologies, personalization, standards, web services

17

#### Semantic heterogeneity resolution in federated databases by metadata implantation and stepwise

evolution

Goksel Aslan, Dennis McLeod


October 1999 **The VLDB Journal — The International Journal on Very Large Data Bases**,  
Volume 8 Issue 2Full text available:  pdf(1.05  
MB)Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

A key aspect of interoperation among data-intensive systems involves the mediation of metadata and ontologies across database boundaries. One way to achieve such mediation between a local database and a remote database is to fold remote metadata into the local metadata, thereby creating a common platform through which information sharing and exchange becomes possible. Schema implantation and semantic evolution, our approach to the metadata folding problem, is a partial database integration schem ...

**Keywords:** Database integration, Database interoperability, Federated databases, Schema evolution, Semantic heterogeneity resolution

18 Education and training: An XML-based approach to multimedia software engineering for distance learning


T. Arndt, S. K. Chang, A. Guercio, P. Maresca

July 2002 **Proceedings of the 14th international conference on Software engineering and knowledge engineering**Full text available:  pdf(95.53  
KB)Additional Information: [full citation](#), [abstract](#), [references](#)

Multimedia Software Engineering (MSE) is a new frontier for both Software Engineering (SE) and Visual Languages (VL). In fact multimedia software engineering can be considered as the discipline for systematic specification, design, substitution and verification of visual patterns. Visual Languages contribute to MSE such concepts as: Visual notation for software specification, design and verification flow charts, ER diagrams, Petri Nets, UML visualization, visual programming languages etc. Multim ...

19 PLEIADES: an object management system for software engineering environments

Peri Tarr, Lori A. Clarke


December 1993 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 1st ACM SIGSOFT symposium on Foundations of software engineering**, Volume 18 Issue 5Full text available:  pdf(1.62  
MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Software engineering environments impose challenging requirements on the design and implementation of an object management system. Existing object management systems have been limited in both the kinds of functionality they have provided and in the models of support they define. This paper describes a system, called PLEIADES, which provides many of the object management capabilities required to support software engineering environments.

20 Complex relationships and knowledge discovery support in the InfoQuilt system

A. Sheth, S. Thacker, S. Patel

May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**,  
Volume 12 Issue 1

Full text available:  pdf(596.98 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Support for semantic content is becoming more common in Web-accessible information systems. We see this support emerging with the use of ontologies and machine-readable, annotated documents. The practice of domain modeling coupled with the extraction of domain-specific, contextually relevant metadata also supports the use of semantics. These advancements enable knowledge discovery approaches that define complex relationships between data that is autonomously collected and managed. The InfoQuilt ...

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Thiruvathukal, G.K.;  
Computing in Science & Engineering [see also IEEE Computations and Engineering]  
Volume 6, Issue 5, Sept.-Oct. 2004 Page(s):66 - 74  
AbstractPlus | Full Text: PDF(328 KB) IEEE JNL

IEEE CNF IEE Conference Proceeding

- ☐ 2. **An Object Based Authoring Tool for Creating SCORM Comp**  
Jun-Ming Su; Shian-Shyong Tseng; Jui-Feng Weng; Kuan-Ting C  
Liu; Yi-Ta Tsai;  
Advanced Information Networking and Applications, 2005. AINA  
International Conference on  
Volume 1, 25-30 March 2005 Page(s):209 - 214  
AbstractPlus | Full Text: PDF(352 KB) IEEE CNF

IEEE STD IEEE Standard

- ☐ 3. **Metadata support for safe component upgrades**  
Brada, P.;  
Computer Software and Applications Conference, 2002. COMPSA  
Proceedings. 26th Annual International  
26-29 Aug. 2002 Page(s):1017 - 1021  
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Relevance scale ☐ ☐ ☐**1** [Soft updates: a solution to the metadata update problem in file systems](#)

Gregory R. Ganger, Marshall Kirk McKusick, Craig A. N. Soules, Yale N. Patt

May 2000 **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 2Full text available: [pdf\(147.90 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#),  
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Metadata updates, such as file creation and block allocation, have consistently been identified as a source of performance, integrity, security, and availability problems for file systems. Soft updates is an implementation technique for low-cost sequencing of fine-grained updates to write-back cache blocks. Using soft updates to track and enforce metadata update dependencies, a file system can safely use delayed writes for almost all file operations. This article describes soft ...



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Brada, P.;  
Computer Software and Applications Conference, 2002. COMPSAC  
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